# City of Fairfield Washington Department of Natural Resources Urban and Community Forestry Inventory Summary

For:

**Cheryl Loeffler** 

Clerk/Treasurer

218 E. Main St.

Fairfield, WA. 99012





#### **SUMMARY**

The City of Fairfield street, park, and cemetery tree inventory was funded by a grant from the Washington Department of Natural Resources (WADNR) Urban and Community Forestry Program (UCF) and United States Forest Service (USFS). The data was collected by International Society of Arboriculture (ISA) certified arborists employed by Community Forestry Consultants, Inc. (CFC). The data was collected using TreeWorks™ tree management software and Trimble™ field units.

#### **Inventory Sites**

The data was collected along city arterial and residential streets, parks, and the cemetery.



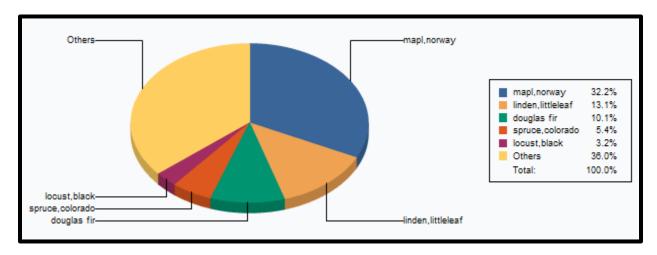
Figure 1 – Aerial map showing areas of inventory data collection.

The inventory collected data for 444 trees. Planting sites and stumps were also collected in the inventory. There are 8 stumps and 209 planting sites at the various inventory sites.

## **Species Characteristics**

Over 60 species were represented in the inventory which seems to indicate a diverse population of tree species. However, 55% of the population inventoried is represented by three species: Norway maple, littleleaf linden, and Douglas fir.

If you consider all 62 species, the maple genus <u>Acer</u> represented 35% of the population and <u>Tilia</u> represented 13% of the population inventoried. Industry guidelines recommend no more than 10% represented by one genus.



## **Appraisal Value**

The value of trees is calculated based on appraisal factors of species, size, condition of tree, and the location of the tree. The appraised value for the 444 trees is estimated at 3.2 million dollars. Appraisal values are determined using the Guide for Plant Appraisal 9th edition, 2000. It is written by the Council of Tree & Landscape Appraisers. The guide provides the processes used to generate appraised values of trees.

# Maintenance Requirements

There are a wide range of diameter classes in Fairfield representing a good distribution of young and older trees. The primary maintenance task on the younger trees is pruning for crown reduction (subordination) to correct co-dominant stems, the primary structural defect. Crown cleaning or removal of dead branches is the primary concern on older trees (Table 1). Over 140 pruning treatments are required.

All tree maintenance practices should follow American National Standards Institute (ANSI) A 300, Part 1 Pruning, and the ISA Best Management Practices for tree pruning. Industry terms and definitions and recommended practices can be found in these documents.

Seven percent of the tree population requires removal. There is a majority of the removals in the 13 to 30 inch diameter classes. These are larger trees and should be dealt with in a timely manner.

Maintenance Task Details	
Task	Trees
clearance	26
crown clean	56
crown restoration	9
remove	32
subordinate	48

Table 1 – Maintenance tasks found in the inventory. Some trees have multiple tasks assigned.

#### Recommendations

CFC recommends the following maintenance.

- Increase diversity of genera planted.
- > Develop a structural pruning plan to correct co-dominant stems and crown clean mature trees.
- Remove dead trees.

The data available from this inventory will provide City of Fairfield city staff the ability to proactively manage the tree population. It will provide advice on the best direction to manage the tree program; anticipate needs and problems; assist with prioritization and scheduling; and allow for execution on maintenance programs based on data analysis. The inventory information can be used to project program costs and justify program budgets and develop an efficient urban forestry management plan.